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a–C

– Physical properties of a-C : N films produced by ion beam assisted deposition.–François Rossi, Bernard André, A. van Veen, P.E. Mijnarends, H. Schut, F. Labohm, Hugh Dunlop, Marie Paule Delplancke, and Kevin Hubbard; **9** (9), 2440–2449.

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– Template synthesis of metal microtubule ensembles utilizing chemical, electrochemical, and vacuum deposition techniques.–Charles J. Brumlik, Vinod P. Menon, and Charles R. Martin; **9** (5), 1174–1183.

– Thermal transfer printing technique for electrode patterning in cofired ceramic multi-layer devices.–Kumi Okuwada and Tetsuo Okuyama; **9** (5), 1193–1198.

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– Electrical properties of glass-metal nanocomposites synthesized by electrodeposition and ion exchange/reduction techniques.–B. Roy, S. Roy, and D. Chakravorty; **9** (10), 2677–2687.

Ag/Ni

– Competition between strain and interface energy during epitaxial grain growth in Ag films on Ni(001).–J. A. Floro, C. V. Thompson, R. Carel, and P. D. Bristowe; **9** (9), 2411–2424.

Ag/Pd

– The elastic biaxial modulus of Ag–Pd multilayered thin films measured using the bulge test.–Martha K. Small, Brian J. Daniels, Bruce M. Clemens, and William D. Nix; **9** (1), 25–30.

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– Thermal transfer printing technique for electrode patterning in cofired ceramic multi-layer devices.–Kumi Okuwada and Tetsuo Okuyama; **9** (5), 1193–1198.

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– The finite electromigration boundary value problem.–J.R. Lloyd and J. Kitchin; **9** (3), 563–569.

– Chemisorptive electron emission as a probe of plastic deformation in reactive metals.–J.T. Dickinson, L.C. Jensen, S.C. Langford, and R.G. Hoagland; **9** (5), 1156–1165.

– A study of aluminum speciation in aluminum chloride solutions by small angle x-ray scattering and ^{27}Al NMR.–Amit Singhal and Keith D. Keefer; **9** (8), 1973–1983.

– Particle size distributions of aerosols formed by laser ablation of solids at 760 Torr.–Robert R. Whitlock and Glendon M. Frick; **9** (11), 2868–2872.

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– Mechanical strength and microstructure of oxygen ion-implanted Al films.–S. Bader, P.A. Flinn, E. Arzt, and W.D. Nix; **9** (2), 318–327.

Al/AlN

– Microstructure and mechanical properties of aluminum nitride-aluminum composite.–Jow-Lay Huang and Ching-Hsiung Li; **9** (12), 3153–3159.

Al/SiO_2

– Deformation mechanisms of Al films on oxidized Si wafers.–C. A. Volkert, C.F. Alofs, and J.R. Liefting; **9** (5), 1147–1155.

Al/SiO_2/Si

– Elastic strain gradients and x-ray line broadening effects as a function of temperature in aluminum thin films on silicon.–Ramnath Venkatraman, Paul R. Besser, John C. Bravman, and Sean Brennan; **9** (2), 328–335.

Al/TiAl

– Aluminizing for TiAl turbocharger rotor by reduced pressure metal-organic chemical vapor deposition (RPMOCVD) and the efficiency of its oxidation resistance.–Takakazu Suzuki, Hiroyuki Umehara, and Haruki Hino; **9** (8), 1984–1989.

Al–Cu/Si_3N_4

– An x-ray method for direct determination of the strain state and strain relaxation in micron-scale passivated metallization lines during thermal cycling.–Paul R. Besser, Sean Brennan, and John C. Bravman; **9** (1), 13–24.

Al–Cu/SiO_2/Si

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Al–Cu–Co

– Structural variations and transformation behavior of the $Al_{68}Cu_{11}Co_{21}$ decagonal phase.–B. Grushko, R. Wittmann, and K. Urban; **9** (11), 2899–2906.

Al–Fe–Si–B

– Synthesis of Al-based metastable alloys by mechanical milling Al and amorphous $Fe_{78}Si_{12}B_{10}$ powders.–K.Y. Wang, A.Q. He, T.D. Shen, M.X. Quan, and J.T. Wang; **9** (4), 866–874.

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– A quantitative measure of internal cavitation in superplastic alloys using photoacoustic analysis.–H.C. Kim, T.H. Ahn, C.H. So, Y. Ma, X. Zhao, and T.G. Langdon; **9** (9), 2238–2243.

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– Plastic deformation in icosahedral Al–Pd–Mn alloys.–J.E. Shield, M.J. Kramer, and R.W. McCallum; **9** (2), 343–347.

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– A novel surface modification technique for aluminum.–R.S. Timsit and D.C. Lauzon; **9** (3), 531–534.

Al–Si–Ni

– Microstructure of gas-atomized Al–20 wt. % Si–1 wt. % Ni powders studied by electron microscopy.–Byong-Taek Lee, Byong-Sun Chun, and Kenji Hiraga; **9** (10), 2519–2523.

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– Structure/property observations for Al–Ti–Cr intermetallic alloys.–J.L. Klansky, J.P. Nic, and D.E. Mikkola; **9** (2), 255–258.

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- Compositional and thermal effects on chemically processed AlN–BN nanocomposite powders.–G. M. Chow, T. D. Xiao, X. Chen, and K. E. Gonsalves; **9** (1), 168–175.
- Effect of trace carbon on the uv-induced behavior of aluminum nitride ceramics.–J. C. Kaplan and R. A. Gerhardt; **9** (9), 2209–2212.

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- Effect of trace carbon on the uv-induced behavior of aluminum nitride ceramics.–J. C. Kaplan and R. A. Gerhardt; **9** (9), 2209–2212.

AlN : H

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AlN–BN

- Compositional and thermal effects on chemically processed AlN–BN nanocomposite powders.–G. M. Chow, T. D. Xiao, X. Chen, and K. E. Gonsalves; **9** (1), 168–175.

α–Al_2O_3

- Ultralow load indentation hardness and modulus of κ– and α–Al_2O_3 CVD coatings.–E. Söderlund, I. Reineck, and D. J. Rowcliffe; **9** (7), 1683–1692.

κ–Al_2O_3

- Ultralow load indentation hardness and modulus of κ– and α–Al_2O_3 CVD coatings.–E. Söderlund, I. Reineck, and D. J. Rowcliffe; **9** (7), 1683–1692.

Al_2O_3

- Anisotropies and mechanical properties of hot-pressed Al_2O_3 and SiC-whisker/Al_2O_3 composites.–Takashi Akatsu, Yasuhiro Tanabe, and Eiichi Yasuda; **9** (1), 207–215.
- Sedimentation in flocculating colloidal suspensions.–Jeffrey S. Abel, Gregory C. Stangle, Christopher H. Schilling, and Ilhan A. Aksay; **9** (2), 451–461.
- Identification of fracture sequences during sharp indentation of polycrystalline Al_2O_3.–Kaiyang Zeng and David Rowcliffe; **9** (7), 1693–1700.
- Porous alumina ceramics by spray-pyrolyzed powder from aluminum sulfate and aluminum nitrate solutions.–Kiyoshi Okada, Akihiro Tanaka, Shigeo Hayashi, Keiji Daimon, and Nozomu Otsuka; **9** (7), 1709–1713.
- A study of aluminum speciation in aluminum chloride solutions by small angle x-ray scattering and ^{27}Al NMR.–Amit Singhal and Keith D. Keefer; **9** (8), 1973–1983.
- Properties of Al_2O_3 films prepared by argon ion assisted deposition.–Mansour S. Al-Robaee, M. Ghanashyam Krishna, G. N. Subanna, K. Narasimha Rao, and S. Mohan; **9** (10), 2688–2694.
- X-ray photoelectron spectroscopic study of hydrated aluminas and aluminas.–Takeshi Tsuchida and Hideaki Takahashi; **9** (11), 2919–2924.

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- X-ray photoelectron spectroscopy of uv laser irradiated sapphire and alumina.–A. J. Pedraza, J. W. Park, H. M. Meyer III, and D. N. Braski; **9** (9), 2251–2257.

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- X-ray photoelectron spectroscopic study of hydrated aluminas and aluminas.–Takeshi Tsuchida and Hideaki Takahashi; **9** (11), 2919–2924.

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- X-ray photoelectron spectroscopy of uv laser irradiated sapphire and alumina.–A. J. Pedraza, J. W. Park, H. M. Meyer III, and D. N. Braski; **9** (9), 2251–2257.

Al_2O_3/Ag–Cu–Ti

- Thermodynamic evaluation of reaction products and layering in brazed alumina joints.–G. P. Kelkar, K. E. Spear, and A. H. Carim; **9** (9), 2244–2250.

Al_2O_3/Borosilicate glass

- Densification kinetics and modeling of glass-filled alumina composite.–Jau-Ho Jean and Tapan K. Gupta; **9** (3), 771–780.

Al_2O_3/C(graphite)

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Al_2O_3/Fe

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Al_2O_3/Fe–Cr

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Al_2O_3/Fe–Cr–Al

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Al_2O_3/NiAl

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Al_2O_3/Polyimide

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$3Al_2O_3 \cdot 2SiO_2$(mullite)

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$Al(OH)_3$

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Al_3Ti

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7Amino-2, 4Dimethyl-1, 8Naphthyridine

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Au/SiO_2 (glass)

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Au/Y_2O_3–ZrO_2 (glass)

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B–SiC

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Ba–Cu–O/Y_2O_3

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BaO · $6Al_2O_3$

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$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$

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$(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$

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$Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_y$

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$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$/Ag

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$Bi_2Sr_2CaCu_2O_8$

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$Bi_2Sr_2CaCu_2O_x$

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$(Bi,Sr)_2Pb_2Ca_2Cu_3O$

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Borosilicate glass–Al_2O_3

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C_{70}

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C(buckytube)

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C(diamond)

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C(diamond-like)

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C(fullerene)

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C_{60}(fullerene)

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C(graphite)

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- The microstructure and morphology of carbon black: A study using small angle neutron scattering and contrast variation.–Rex P. Hjelm, Jr., Wesley A. Wampler, Philip A. Seeger, and Michel Gerspacher; **9** (12), 3210–3222.

C(nanotubes)

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C : (B,H;N,H)

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C(diamond)/BN(cubic)

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C(diamond)/C(fiber)

- Diamond-coated carbon fiber.–J. Ting and M. L. Lake; **9** (3), 636–642.

C(diamond)/C(fiber)–Si

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C(diamond)/Cu

- Growth of diamond films on copper.–M. L. Hartsell and L. S. Plano; **9** (4), 921–926.

C_{60}(fullerene)/Cu

- Processing of fullerene-reinforced composites.–E. V. Barrera, J. Sims, D. L. Callahan, V. Provenzano, J. Milliken, and R. L. Holtz; **9** (10), 2662–2669.

C(fiber)/Epoxy resin

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C(diamond)/Ni

- Diamond nucleation on nickel substrates seeded with non-diamond carbon.–P. C. Yang, W. Zhu, and J. T. Glass; **9** (5), 1063–1066.

C(fiber)/Ni/Epoxy resin

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C(fiber)/Phenol resin

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C(diamond)/Si

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C(diamond)/SiC

- Diamond growth on carbide surfaces using a selective etching technique.–K. J. Grannen and R. P. H. Chang; **9** (8), 2154–2163.

C(graphite)/SiC

- Modeling study of effects of temperature profiling on CVI processing of woven graphite preforms with dimethyldichlorosilane.–Merrill K. King; **9** (8), 2174–2189.

C(diamond)/SiO_2

- Nucleation and growth during the chemical vapor deposition of diamond on SiO_2 substrates.–Janet Rankin, Rachel E. Boekenhauer, Roseann Csencsits, Yuzo Shigesato, Matthew W. Jacobson, and Brian W. Sheldon; **9** (8), 2164–2173.

C_{60}(fullerene)/Sn

- Processing of fullerene-reinforced composites.–E. V. Barrera, J. Sims, D. L. Callahan, V. Provenzano, J. Milliken, and R. L. Holtz; **9** (10), 2662–2669.

C_{60}/TCNQ

- Observation of fractal patterns in C_{60}-polymer thin films.–H. J. Gao, Z. Q. Xue, Q. D. Wu, and S. Pang; **9** (9), 2216–2218.

C(diamond)/WC

- Diamond growth on carbide surfaces using a selective etching technique.–K. J. Grannen and R. P. H. Chang; **9** (8), 2154–2163.

C(diamond)/WC/C(diamond)

- Diamond-ceramic composite tool coatings.–W. D. Fan, X. Chen, K. Jagannadham, and J. Narayan; **9** (11), 2850–2867.

C(graphite)–$FeCl_3$–IBr–H_2SO_4

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C–N

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Ca

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(Ca–La–S)

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$LiNb_3O_8$

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SiC(fiber)/Ti–V–Cr–Sn–Al

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$YBa_2Cu_3O_{7-x}$(tetragonal)

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Y_2BaCuO_5

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$(Yb,Er)(Al,Ga)_3(BO_3)_4$

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$Y_2Si_2O_7$

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ZnO

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ZnO : B_2O_3

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ZnO : (Ga, Al)

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